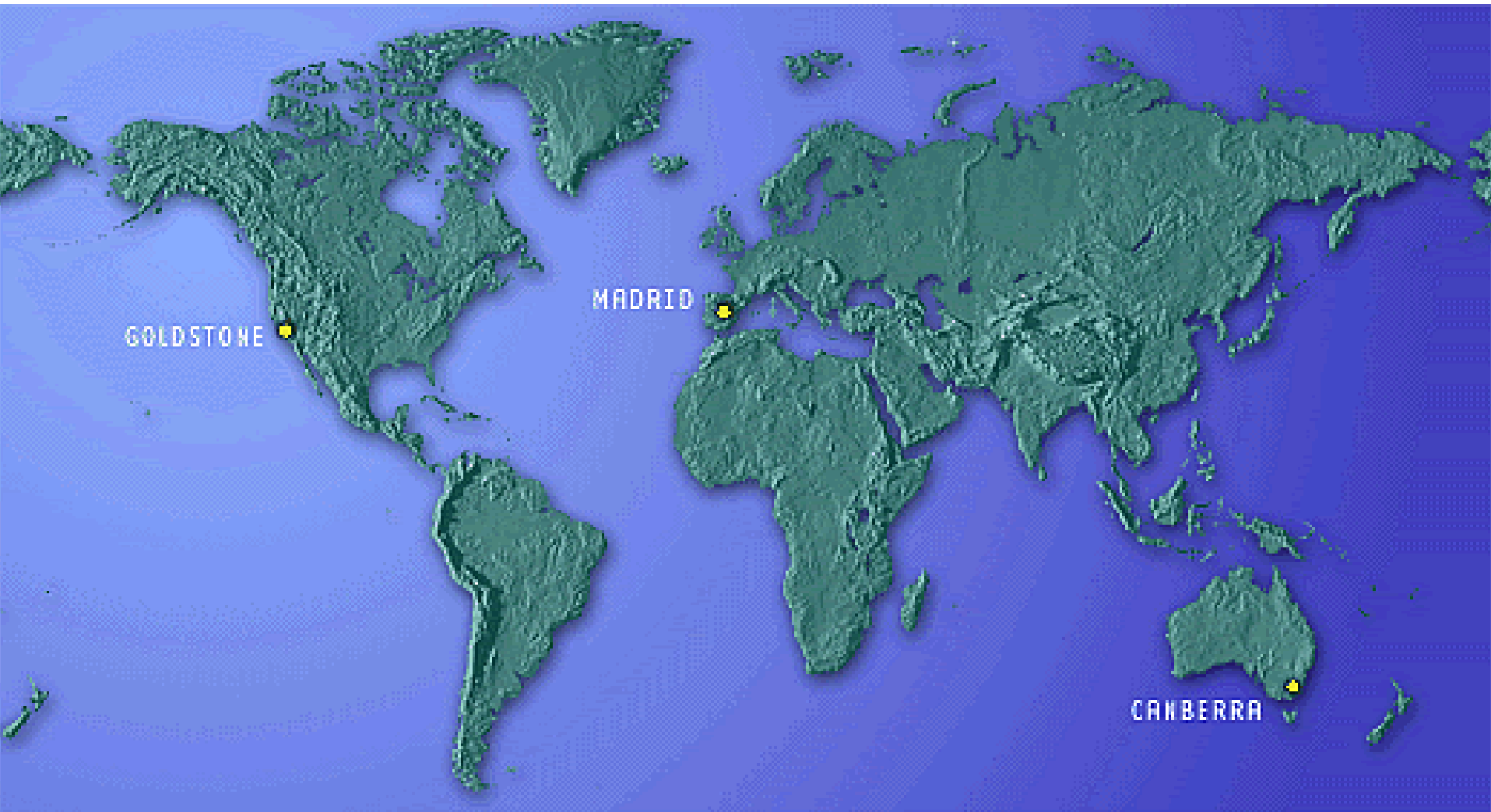


DSN Antenna Downtime Status and Forecast



<http://rapweb.jpl.nasa.gov/planning>

Antenna Downtime Status and Forecast

The following downtimes for 2008 and 2009

- ❑ DSS-24 Ka-Band Phase 2 downtime starts November 4, 2008 through January 31, 2009 (weeks 45 – 5).
 - ❑ This downtime is ongoing.
 - ❑ Antenna calibrations will be during the 1st half of January and demo tracks during the 2nd half of January.
- ❑ DSS-43 downtime for Life Extension and Depot Level Maintenance is scheduled for January 5, through April 12, 2009, weeks 2 – 15
 - ❑ DTRR is scheduled for 12/9/08.
- ❑ DSS-26 downtime for X/KA HMT Maintenance is planned for 3 days, February 10, 11 & 12 of 2009.
 - ❑ Also scheduled during this time is a request for Ka-band Upgrade.
- ❑ DSS-14 3-day Grouting is planned for April of 2009 week 16.
 - ❑ Cassini has requested that this downtime start before their critical support on DOY 110.
- ❑ DSS-63 downtime for EI Bearing Replacement is scheduled for April 28, through May 24, 2009, weeks 18 - 21.
 - ❑ All supports have been moved to other antenna during this downtime
- ❑ DSS-63 downtime for Grouting is scheduled for May 25, through June 7, 2009, weeks 22 & 23.
 - ❑ All supports have been moved to other antenna during this downtime

Antenna Downtime Status and Forecast

The following downtimes for 2008 and 2009

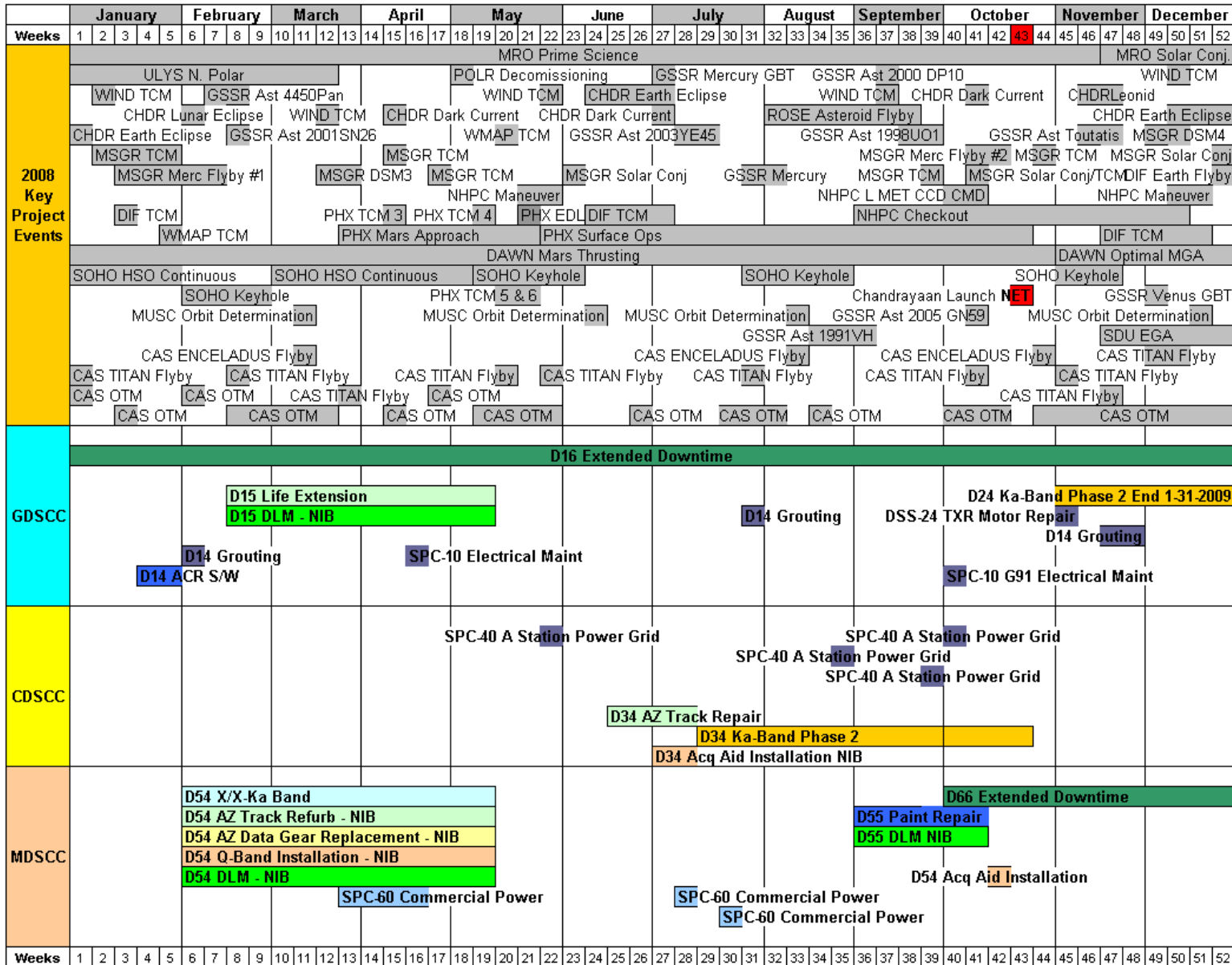
- ❑ Complex preventative maintenance “Apollo Tie-Line Electrical Maintenance”
 - ❑ This has been scheduled for 008/1645-0630 (week 2 of 2009).
 - ❑ All conflicts have been resolved.
- ❑ Complex preventative maintenance “Echo Tie-Line Electrical Maintenance” has been moved to start after the Apollo Tie-Line Electrical Maintenance.
 - ❑ This can be moved to early CY 2009, proposed for week 7
 - ❑ Could possibly move to mid March 2009.
 - ❑ Let’s discuss this.
- ❑ Complex corrective maintenance “G86/G81 Transfer Switch Electrical Maintenance”
 - ❑ Has been moved to start NET week 4 of 2009.
 - ❑ Let’s discuss this.
- ❑ DSS-54 Ka-Band Phase 2 is scheduled for June 8, through September 6, 2009 weeks 24 - 36.
 - ❑ All supports have been moved to other antenna during this downtime.
- ❑ DSS-14 downtime for Life Extension and Depot Level Maintenance will start October 3, 2009 and end May 2, 2010 weeks 40-17
 - ❑ Does this eliminate quarterly grouting?

Antenna Downtime Status and Forecast

The following downtimes are for 2010 and 2011

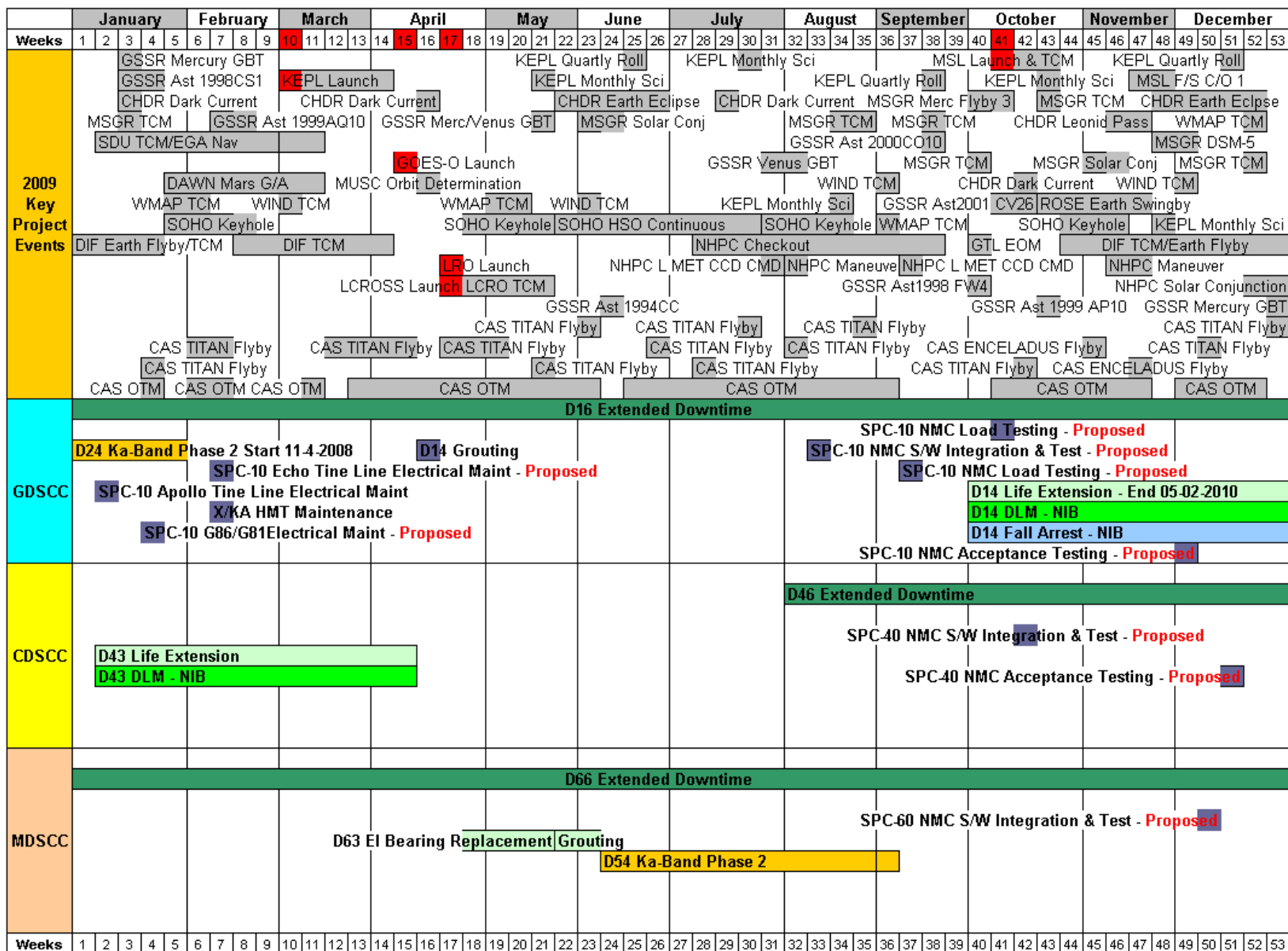
- ❑ DSS-34 downtime for Azimuth Track Replacement is scheduled February 1, through April 11, 2010, weeks 5 – 14.
 - ❑ This was moved for a Cassini requested support.
- ❑ DSS-15 downtime for Pintle Bearing is scheduled for May 3, through June 27, 2010, weeks 18 - 25.
 - ❑ DSS-15 Elevation Gearbox Replacement will be scheduled NIB during weeks 18 & 19 of the Pintle Bearing downtime.
- ❑ DSS-25 downtime for Ka U/L is scheduled for August 2 – 29, 2010 weeks 31 – 34.
 - ❑ Depot Level Maintenance will be scheduled during this downtime.
- ❑ DSS-65 downtime for Life Extension Elevation has been proposed for August 2, through October 3, 2010, weeks 31 - 39.
 - ❑ Projects impacted have been sent request to either delete or move to another antenna
- ❑ DSS-24 downtime for painting is scheduled August 24 through October 18, 2010 weeks 35 – 42
 - ❑ All supports have been moved to other antenna during this downtime..
 - ❑ There will be complete 24/7 downtime for the first 4 weeks and dayshift downtime (1400-0200) for the remaining weeks.
 - ❑ Depot Level Maintenance will be scheduled the first 4 weeks of this downtime.
- ❑ As a result of the reduction of downtime for DSS-43 & DSS-63 in 2008 & 2009, it is requested to recover that time in 2010 and 2011, local spring, summer or fall after DSS-14 RTS.
 - ❑ DSS-43 is proposed for November 2010 thru February 2011 after EPOXI encounter.
 - ❑ DSS-63 is proposed for April 4, through September 4 of 2011 weeks 14 – 35, just after Messenger MOI.
- ❑ DSS-26 downtime for Depot Level Maintenance will be scheduled during the September through November time frame in 2011 or 2012.
 - ❑ Requesting a minimum of 4 weeks for this task.

Antenna Downtime Status and Forecast 2008



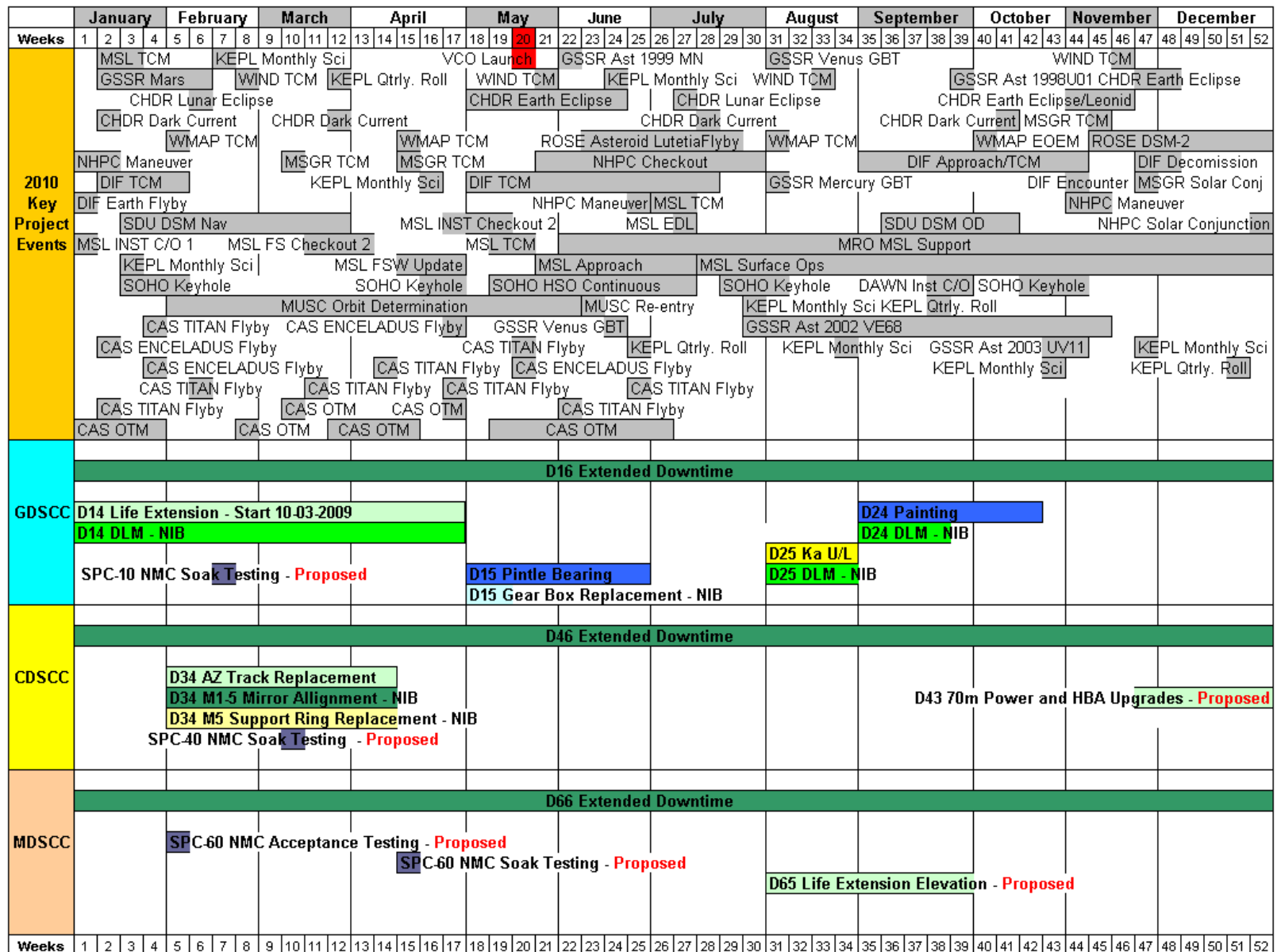
Revised: November 26, 2008

Antenna Downtime Status and Forecast 2009



Revised: November 26, 2008

Antenna Downtime Status and Forecast 2010



Revised: November 26, 2008

Antenna Downtime Status and Forecast 2011

	January			February			March			April			May			June			July			August			September			October			November			December																		
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
2011 Key Project Events	SDU Tempel Enc																															GRAIL Launch/TCM						GRAIL-A LOI														
	SDU Approach						SDU Decommission						DAWN Vesta Approach												DAWN Vesta Orbit																											
	CHDR Dark Current						DAWN Instrument CO						CHDR Earth Eclipse						CHDR Dark Current						DAWN Vesta Arrival						CHDR Dark Current						CHDR Leonid															
	KEPLMonthly Sci.						KEPLMonthly Sci.						KEPLMonthly Sci.						KEPLMonthly Sci.						KEPLMonthly Sci.						KEPLMonthly Sci.						KEPLMonthly Sci.															
	KEPL Qtrly. Roll													KEPL Qtrly. Roll						KEPL Qtrly. Roll						KEPL Qtrly. Roll						KEPL Qtrly. Roll																				
	SOHO Keyhole													SOHO Keyhole						SOHO Keyhole						SOHO Keyhole						SOHO Keyhole																				
	MSGR TCM						MSGR MOI												MSGR TCM						JUNO Launch & TCM						JUNO TCM						JUNO HV Checkout															
	MSGR Solar Conjunction												MSGR TCM						MSGR TCM						KEPLMonthly Sci.						MSGR TCM																					
	MSGR TCM						MSGR TCM																		KEPLMonthly Sci.						NHPC Maneuver						NHPC Maneuver															
	NHPC Maneuver						NHPC Checkout						NHPC Checkout												NHPC Maneuver						NHPC Solar Conjunction																					
	ROSE DSM-2						ROSE DSHM Entry												WIND TCM						WIND TCM						WIND TCM						GSSR Asteroid 2000 YA															
	D16 Extended Downtime																																																			
GDSCC																																																				
CDSCC																																																				
	D43 70m Power and HBA Upgrades - Proposed																																																			
MDSCC																																																				
	D63 70m Power and HBA Upgrades & Life Extension - Proposed																																																			
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52

Revised: November 26, 2008

Antenna Downtime Status and Forecast 2012

	January				February				March				April				May				June				July				August				September				October				November				December							
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
2012 Key Project Events	DAWN Vesta Orbit				MSGR EOPM																												SOHO EOEM																			
	DAWN Vesta Depart																				DAWN Vesta Thrust																															
	WIND TCM												WIND TCM												WIND TCM								WIND TCM																			
					KEPL Monthly Sci.				KEPL Qtrly. Roll				KEPL Monthly Sci.				KEPL Qtrly. Roll								KEPL Monthly Sci.				KEPL Monthly Sci.																							
					KEPL Monthly Sci.												KEPL Monthly Sci.				KEPL Monthly Sci.								KEPL EOEM																							
GDSCC																																																				
CDSCC																																																				
MDSCC																																																				
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52

Antenna Downtime Status and Forecast

DSN Resource Implementation Planning Matrix By Subnet

Complex	Station	Subnet	S-Band		X-Band		Ka-Band		Ka Phase 2
			Down	Up	Down	Up	Down	Up	
40	DSS-46	26M*	✓	✓	N/A	N/A	N/A	N/A	N/A
10	DSS-27	34HSB	✓	✓	N/A	N/A	N/A	N/A	N/A
10	DSS-24	34B1	✓	✓	✓	✓	N/A	N/A	02/01/09
40	DSS-34	34B1	✓	✓	✓	✓	✓	N/A	02/01/09
60	DSS-54	34B1	✓	✓	✓	✓	✓	N/A	09/07/09
10	DSS-25	34B2	N/A	N/A	✓	✓	✓	08/29/10	N/A
10	DSS-26	34B2	N/A	N/A	✓	✓	✓	N/A	N/A
60	DSS-55	34B2	N/A	N/A	✓	✓	✓	N/A	N/A
10	DSS-15	34HEF	✓	N/A	✓	✓	N/A	N/A	N/A
40	DSS-45	34HEF	✓	✓	✓	✓	N/A	N/A	N/A
60	DSS-65	34HEF	✓	✓	✓	✓	N/A	N/A	N/A
10	DSS-14	70M	✓	✓	✓	✓	N/A	N/A	N/A
40	DSS-43	70M	✓	✓	✓	✓	N/A	N/A	N/A
60	DSS-63	70M	✓	✓	✓	✓	N/A	N/A	N/A
N/A = Capability Not Planned xx/xx/xx = Capability Date Recently Changed As of: 11/26/08 ✓✓✓ = Capability Recently Exists ✓ = Capability Exists * = To Be Decommissioned									